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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,113	12/03/2004	Ralf Adamictz	LYBZ 00090	, 3128
27885 7590 01/03/2007 FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			EXAMINER	
			WHITE, DWAYNE J	
			ART UNIT	PAPER NUMBER
			3745	<u> </u>
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONT	НЅ	01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)			
	10/517,113	ADAMIETZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dwayne J. White	3745			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 10/24	<u>1/06</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-6 and 8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 4-6 and 8 is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) 3 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 03 December 2004 is/an Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the Examine 10. 	re: a) \square accepted or b) \boxtimes objector drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te			
Paper No(s)/Mail Date	6) Other:	T F			

Art Unit: 3745

DETAILED ACTION

Response to Amendment

Applicant's amendments to the claims on 24 October 2006 have been fully considered. Claims 1-6 and 8 are pending. Applicant's amendment to claim 1, specifically the statement, "smooth inner surface, whish is free of ribs and projections", is not supported by the Specification as filed and has been deemed new matter. The Examiner further points out that the since the Drawings only show cross sectional view of the claimed invention, it is unclear whether or not the inner wall is smooth or not. Applicant's argument in regards to the 35 USC 102(b) rejection in view of Haentjens has been fully considered and deemed persuasive. In regards to the rejection in view of Holss, while the Examiner acknowledges the differences set forth in Applicant's arguments, upon further consideration the Examiner has determined a new grounds for rejection based on Holss in view of Kabasawa et al. (6,419,444)

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the smooth inner surface, which is free of ribs and projections, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

Art Unit: 3745

should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The amendment filed 24 October 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material, which is not supported by the original disclosure, is as follows: "smooth inner surface, which is free of ribs and projections".

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 3745

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Particularly, claim 1 recites the limitation "smooth inner surface, which is free of ribs and projections". This limitation is not disclosed in the specification or the Drawings.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holss (4,86,985) in view of Kabasawa et al. (6,419,444). Holss discloses a vacuum pump comprising a pressure side 7 and a suction side 6; a rotor 2 and a stator 5; the stator has a rotationally symmetric inner surface with conforms to the outer geometry of the rotor; the rotor has webs and a conical hub carrying the webs. The outer diameter of the rotor and the inner diameter of the stator of the suction-side vacuum pump decrease from the suction side to the pressure side. Holss does not disclose that the pitch of the webs decrease from suction side to pressure side.

Kabasawa et al. teaches the angle of the web for a mechanical-kinetic vacuum pump decreasing from suction side to pressure side for the purpose of increasing the efficiency and minimizing the deterioration of the sealing between the rotor and the stator wall. Since both

Art Unit: 3745

Holss and Kabasawa et al. disclose screw type vacuum pumps, it would have been obvious at the

time the invention was made to one of ordinary skill in the art to modify the pitch of the web of

Holss, with the teachings of Kabasawa et al., by decreasing the pitch from the suction side to the

pressure side for the purpose of increasing the efficiency and minimizing the deterioration of the

sealing between the rotor and the stator wall.

In regards to the limitation of the stator walls being smooth and free of ribs and

projections, it is the position of the Examiner that since Applicant did not disclose that this

feature in the originally filed Specification or state why this feature is critical to the invention

claimed, it would be an obvious matter of design choice to have smooth stator walls versus the

projections used by Holss. Kabasawa et al. further evidence this in that both references disclose

the same type of vacuum pump and their stator walls perform the same function.

CONCLUSION

Allowable Subject Matter

Claims 4, 5, 6 and 8 are allowed.

Claim 3 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Art Unit: 3745

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwayne J. White whose telephone number is (571) 272-4825. The examiner can normally be reached on 7:00 am to 4 pm T-F and alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dwayne J White Patent Examiner

Art Unit 3745

DJW